

=> d his

(FILE 'HOME' ENTERED AT 09:43:50 ON 04 MAR 2003)

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 09:47:42 ON 04 MAR 2003

FILE 'CAPLUS' ENTERED AT 09:47:55 ON 04 MAR 2003

S TGCATCCCCCAGGCCACCAT/SQSN

FILE 'REGISTRY' ENTERED AT 09:48:13 ON 04 MAR 2003

L1 129 S TGCATCCCCCAGGCCACCAT/SQSN

FILE 'CAPLUS' ENTERED AT 09:48:53 ON 04 MAR 2003

L2 66 S L1

L3 33 S L2 AND PHOSPHOROTHIOATE

L4 3 S L3 AND (SP OR RP OR CHIRAL OR STEREO? OR RACEMIC)

L5 826 S PHOSPHOROTHIOATE AND (SP OR RP OR CHIRAL OR STEREO? OR RACEMI

L6 4 S L5 AND SP AND RACEMIC

FILE 'STNGUIDE' ENTERED AT 09:53:31 ON 04 MAR 2003

FILE 'CAPLUS' ENTERED AT 09:55:56 ON 04 MAR 2003

SELECT RN L6 3

FILE 'REGISTRY' ENTERED AT 09:56:14 ON 04 MAR 2003

L7 1 S E1/RN

L8 1 S ISIS 3082

FILE 'REGISTRY' ENTERED AT 09:58:30 ON 04 MAR 2003

SET TERMSET E#

DEL SEL Y

SEL L8 1 RN

L9 1 S E1/RN

SET TERMSET LOGIN

FILE 'CA' ENTERED AT 09:58:37 ON 04 MAR 2003

L10 35 S L9

L11 18 S L10 AND PY<=1998

FILE 'CAPLUS' ENTERED AT 10:01:21 ON 04 MAR 2003

L12 0 S 155362-55-3/RN AND (CHIRAL OR RACEMIC) AND (SP OR RP)

L13 34 S 155362-55-3/RN

L14 0 S 155362-55-3/RN AND (CHIRAL OR RACEMIC)

L15 1 S 155362-55-3/RN AND (STEREO?)

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 10:03:30 ON 04 MAR 2003

L16 826 FILE CAPLUS

L17 616 FILE MEDLINE

L18 467 FILE BIOSIS

TOTAL FOR ALL FILES

L19 1909 S L5

L20 1167 DUP REM L19 (742 DUPLICATES REMOVED)

L21 824 S L20

L22 39 FILE CAPLUS

L23 274 S L20

L24 14 FILE MEDLINE

L25 69 S L20

L26 1 FILE BIOSIS

TOTAL FOR ALL FILES

L27 54 S L20 AND 60%

L28 4 FILE CAPLUS

L29 0 FILE MEDLINE  
L30 0 FILE BIOSIS  
TOTAL FOR ALL FILES  
L31 4 S L27 AND (PURE OR PURITY)

FILE 'STNGUIDE' ENTERED AT 10:09:13 ON 04 MAR 2003

=> file uspatfull, pctfull, wpids

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.30	163.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

FILE 'USPATFULL' ENTERED AT 10:12:29 ON 04 MAR 2003  
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'PCTFULL' ENTERED AT 10:12:29 ON 04 MAR 2003  
COPYRIGHT (C) 2003 Univentio

FILE 'WPIDS' ENTERED AT 10:12:29 ON 04 MAR 2003  
COPYRIGHT (C) 2003 THOMSON DERWENT

=> s phosphorothioate and (sp or rp or chiral or stereo? or racemic)

L32 3040 FILE USPATFULL  
L33 3879 FILE PCTFULL  
L34 50 FILE WPIDS

TOTAL FOR ALL FILES

L35 6969 PHOSPHOROTHIOATE AND (SP OR RP OR CHIRAL OR STEREO? OR RACEMIC)

=> s racemic phosphorothioate

L36 15 FILE USPATFULL  
L37 3 FILE PCTFULL  
L38 1 FILE WPIDS

TOTAL FOR ALL FILES

L39 19 RACEMIC PHOSPHOROTHIOATE

=> s sp phosphorothioate

L40 30 FILE USPATFULL  
L41 15 FILE PCTFULL  
L42 6 FILE WPIDS

TOTAL FOR ALL FILES

L43 51 SP PHOSPHOROTHIOATE

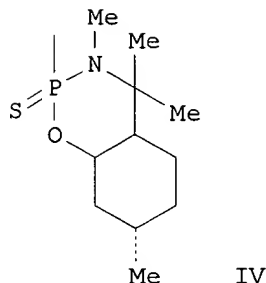
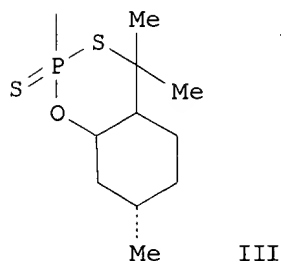
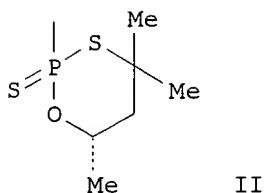
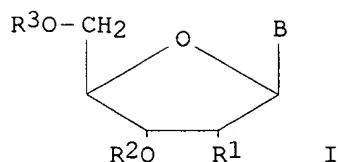
=> s l43 and l39

L44 13 FILE USPATFULL  
L45 2 FILE PCTFULL  
L46 1 FILE WPIDS

TOTAL FOR ALL FILES

L47 16 L43 AND L39

=> d ibib abs 1-16



1700

AB Novel **chiral** compds. that mimic and/or modulate the activity of wild-type nucleic acids are disclosed. In general, the compds. are **phosphorothioate** oligonucleotides wherein the 5', and the 3'-terminal internucleoside linkages are chirally **Sp** and internal internucleoside linkages are different, i.e., 5'-T1-(Nu-**Sp**)n-(Nu-Lp)m-(Nu-**Sp**)p-Nu-T2-3' (T1,T2=OH, covalent attachment to a support, etc.; **Sp=Sp** **phosphorothioate** internucleoside linkage; Lp=**Rp** **phosphorothioate**-, **racemic phosphorothioate**-, other internucleotide linkage; n,m=1-100; p=0-100; Nu=ribo- or deoxyribonucleoside and derivs.). A method for synthesizing these oligonucleotides comprises reaction of I [B=heterocyclic base, R1=H, (protected) OH, (protected) 2'-substituent; R2=II, III, IV; R3=protecting group] with an immobilized nucleoside followed by reaction of the resulting (deprotected) dinucleotide with I in which the II, III, IV groups have the opposite (**Rp**) **stereochem.**, etc.

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

IT **155362-55-3**, ISIS 3082

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)  
(metab. of antisense oligonucleotides in rat liver homogenates in relation to structure)

RN 155362-55-3 CAPLUS

CN DNA, d(P-thio)(T-G-C-A-T-C-C-C-C-C-A-G-G-C-C-A-C-C-A-T) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

ACCESSION NUMBER: 2000:17555 CAPLUS

DOCUMENT NUMBER: 132:260138

TITLE: Metabolism of antisense oligonucleotides in rat liver homogenates

AUTHOR(S): Crooke, Rosanne M.; Graham, Mark J.; Martin, Michael J.; Lemonidis, Kristina M.; Wyrzykiewicz, Tad; Cummins, Lendell L.

CORPORATE SOURCE: Carlsbad Research Center, Isis Pharmaceuticals, Inc.,